

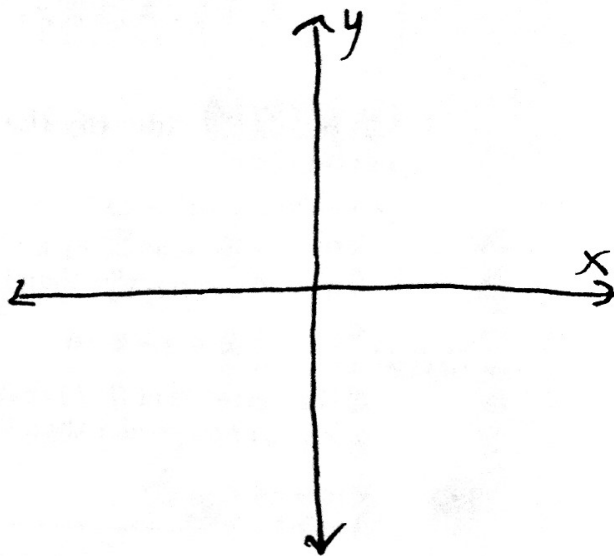
name _____ Date _____ Per _____

Alg. I Quiz - Graphing linear relationships

REI.10

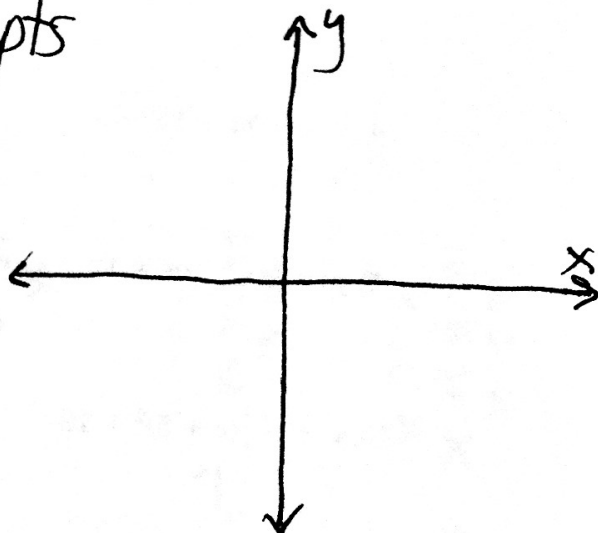
- ① Make an equation table
to graph:

X	$y = 2x - 4$	(x, y)
-2		
-1		
0		
1		
2		



- ② Find the x & y-intercepts
& graph:

$$y = -3x + 9$$



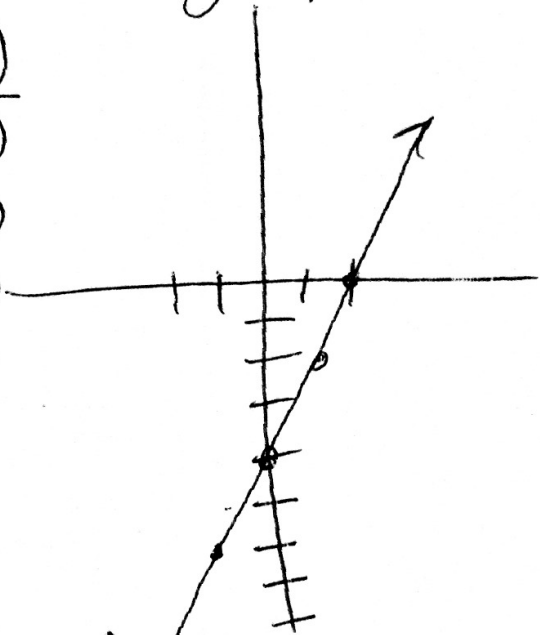
name Answers

①

Alg. 1 Quiz - Graphing
Linear relations
~~2A.5~~ REI.10

① make an equation table to graph:

x	y = 2x - 4	(x, y)
-2	2(-2) - 4 = -8	(-2, -8)
-1	2(-1) - 4 = -6	(-1, -6)
0	2(0) - 4 = -4	(0, -4)
1	2(1) - 4 = -2	(1, -2)
2	2(2) - 4 = 0	(2, 0)



② find x & y-intercepts, then graph

$$y = -3x + 9$$

$$y = -3(0) + 9$$

$$\boxed{y = 9}$$

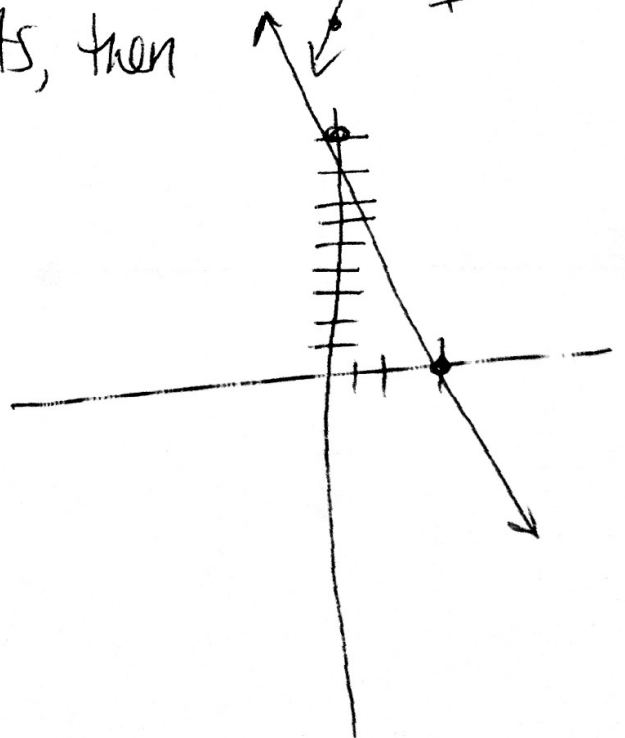
$$0 = -3x + 9$$

$$-9$$

$$-9$$

$$\frac{-9}{-3} = \frac{-9}{-3}$$

$$\boxed{x = 3}$$



name _____

Date 10/22 (2)

Exit Slip: Slope 1F.6

Must Use Mapping

① Find the slope & ② describe if it is increasing

X	Y
-1	1
1	2
3	3
5	4
7	5

Answer

Find the slope
First choose 2
coordinates &
label them 1 & 2
(1, 2) (3, 3)
① ②

I then use the
Formula ~~#~~

$$\frac{y_2 - y_1}{x_2 - x_1}$$

next I plug
my coordinates
into the
Formula

$$\frac{3-2}{3-1} =$$

Then I simplify
to find the
rate of
change.

$$R.O.C. = \frac{1}{2}$$

Now I know
the line is
increasing
because $\frac{1}{2}$ is
positive

name _____

Date _____ Per _____

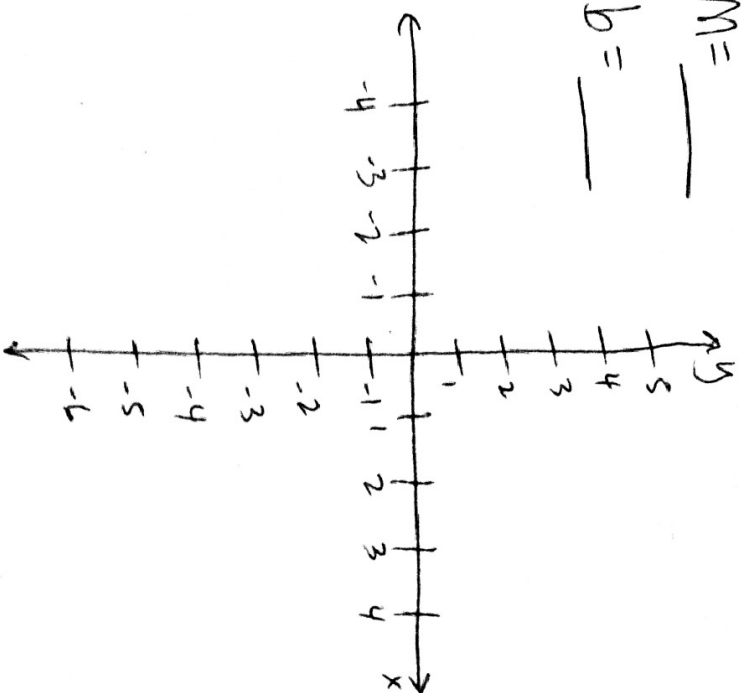
Atg. 1 Quiz - Graphing slope-intercept equations
& writing equations from graphs. LE.5 _____
CED.2 _____

Graph the following equations on the scale provided.

① $y = \frac{5}{2}x - 2$

$m =$ _____

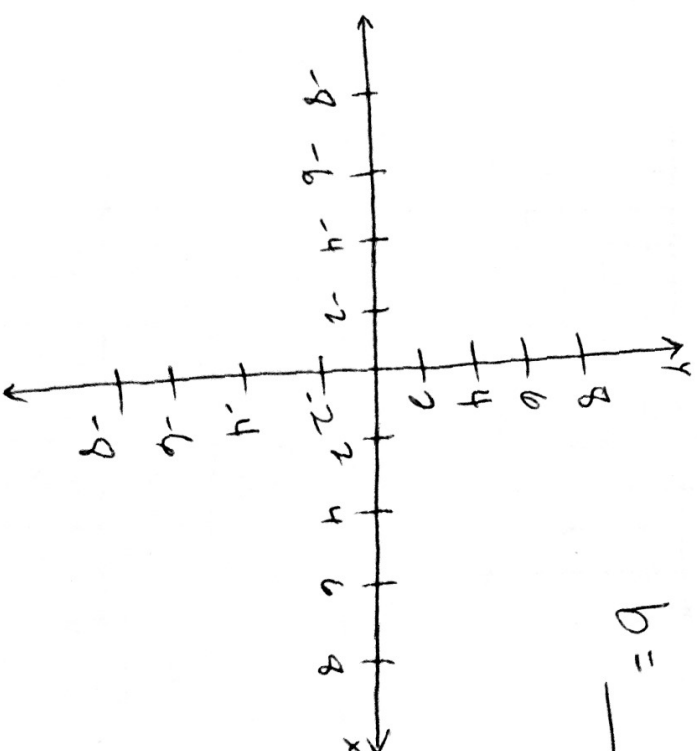
$b =$ _____



② $y = -6x + 1$

$m =$ _____

$b =$ _____



name Answers

Date _____ Per _____

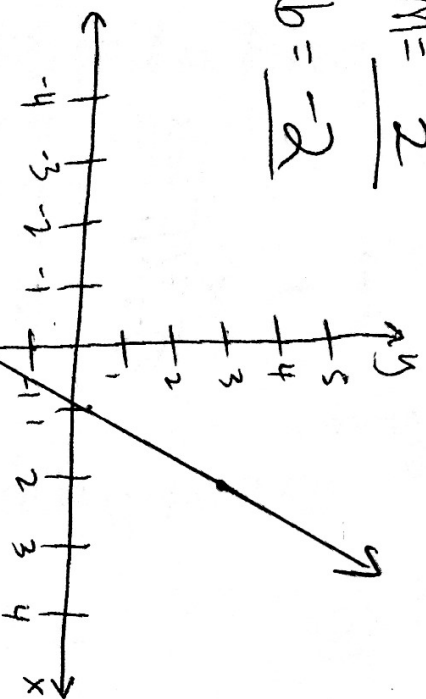
Alg. 1 Quiz - Graphing Slope-Intercept Equations
& Writing Equations from Graphs. LE.5 _____
CED.2 _____

Graph the following equations on the scale provided.

① $y = \frac{5}{2}x - 2$

$m = \frac{5}{2}$

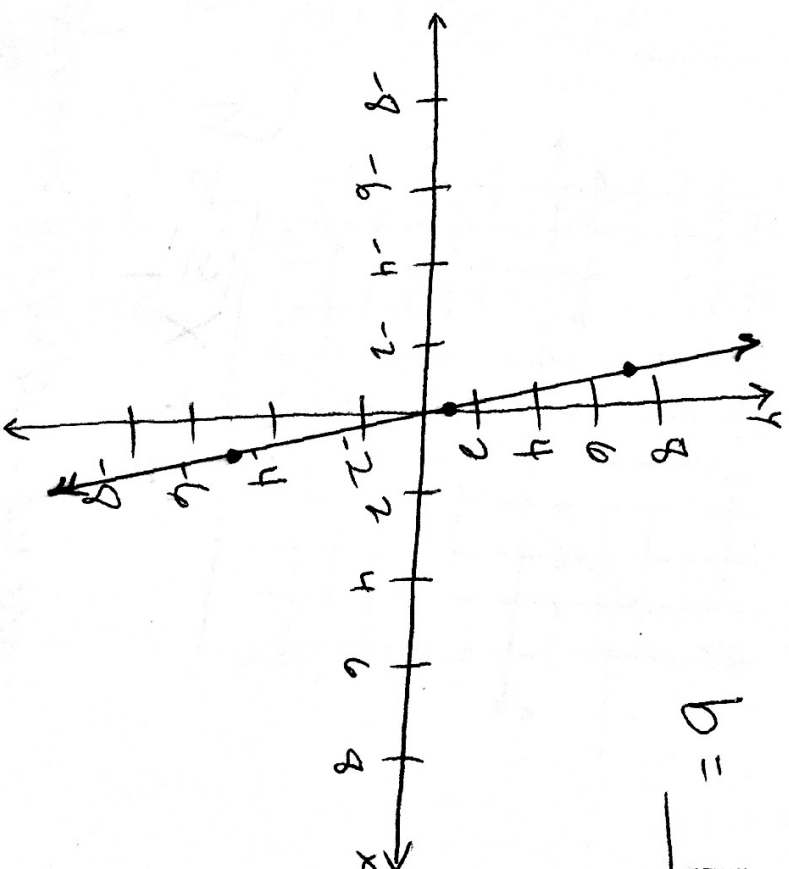
$b = -2$



② $y = -6x + 1$

$m = -6$

$b = 1$



Given the following information, write a linear equation in slope-intercept form.

③ $m = 4$ $b = -6$

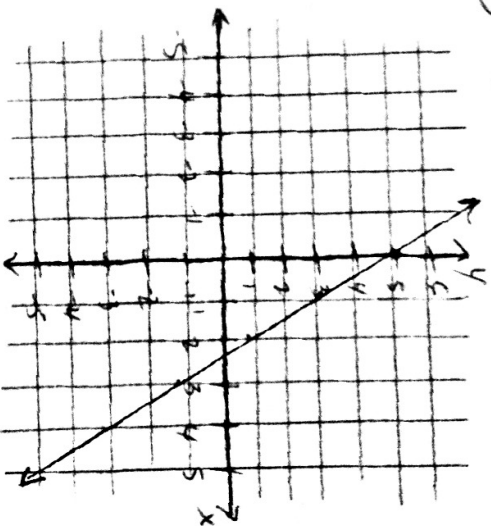
$y = \underline{\hspace{2cm}}$

④ $m = \frac{1}{2}$ $b = 50$

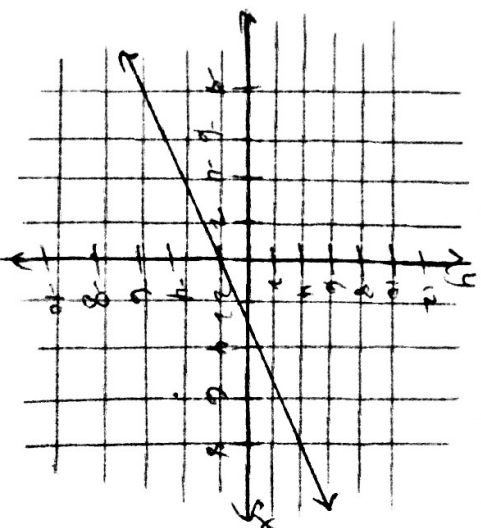
$y = \underline{\hspace{2cm}}$

Given the following graphs, write the linear equation in slope-intercept form.

⑤ $y = \underline{\hspace{2cm}}$



⑥ $y = \underline{\hspace{2cm}}$



Given the following information, write a linear equation in slope-intercept form.

③ $m = 4$ $b = -6$

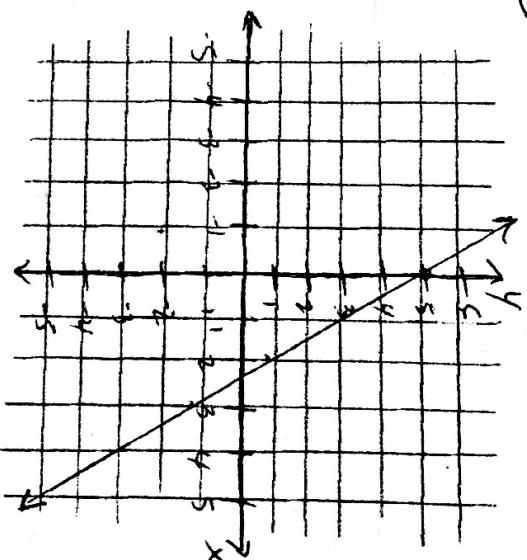
$$y = 4x - 6$$

④ $m = \frac{1}{2}$ $b = 50$

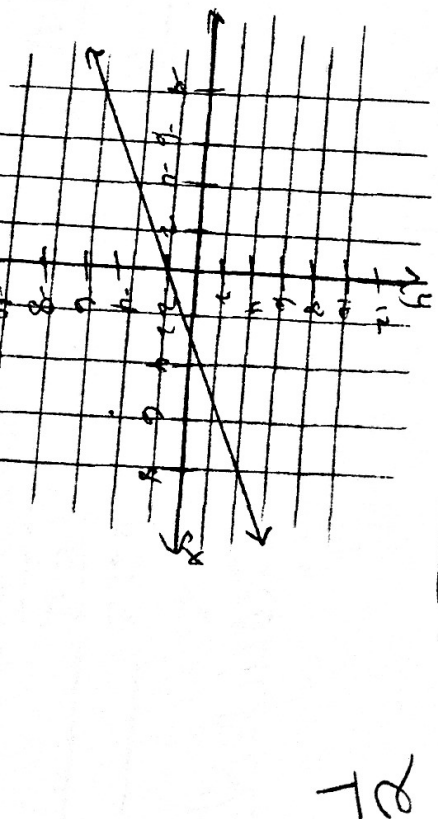
$$y = \frac{1}{2}x + 50$$

Given the following graph, write the linear equation in slope-intercept form.

⑤ $y = -2x + 5$



⑥ $y = \frac{3}{4}x - 2$ or $\frac{5}{8}x - 2$



name _____

Date _____

Per _____

Alg. 1 Creating equations Quiz

ced 2 _____

Given slope & a point and two points.

Write the equation of the line with the given information.

① $m = 2$ $(1, 5)$

③ $(2, 4)$ $(1, 6)$

② $m = -1$ $(-1, 3)$

④ $(1, 1)$ $(3, 5)$

Answers

① $m=2$ $\begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} 1 \\ 5 \end{pmatrix}$

$$y = mx + b$$

$$5 = (2)(1) + b$$

$$5 = 2 + b$$

$$\frac{-2 - 5}{3 - 1} = b$$

$$\boxed{y = 2x + 3}$$

② $m=-1$ $\begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} -1 \\ 3 \end{pmatrix}$

$$y = mx + b$$

$$3 = (-1)(-1) + b$$

$$3 = 1 + b$$

$$\frac{-1 - 3}{-1 - 1} = b$$

$$\boxed{2 = b}$$

$$\boxed{y = -x + 2}$$

③ $\begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} 4 \\ 2 \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} 4 \\ 2 \end{pmatrix} \rightarrow \begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 4}{4 - 4} = \frac{-2}{0} = \text{undefined}$$

$$\frac{y - 2}{4 - 4} = \frac{y - 2}{0} = \text{undefined}$$

$$2 = -2(4) + b$$

$$2 = -8 + b$$

$$\frac{10 - 2}{4 - 4} = b$$

$$\boxed{y = -2x + 10}$$

④ $\begin{pmatrix} x \\ y \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} 3 \\ 5 \end{pmatrix}$

$$m = \frac{5 - 1}{3 - 1} = \frac{4}{2} = 2$$

$$1 = 2(1) + b$$

$$1 = 2 + b$$

$$\frac{-2 - 1}{-1 - 1} = b$$

$$\boxed{y = 2x - 1}$$

name _____

11/18 (P)

Alg. 1 Exit Pblm

CED. 2

Point-Slope Eq.

write the point-slope eq.

① $(1, -3), m = -4$

write the eq. in slope int. form

② $y - 6 = -2(x + 2)$

Answers

write pt-slope equation
(1, -3), $m = -4$

$$\boxed{y + 3 = -4(x - 1)}$$

write eq. in ~~slope~~-int form

② $y - 6 = -2(x + 2)$

$$\begin{array}{rcl} y - 6 & = & -2x - 4 \\ +6 & & +6 \end{array}$$

$$\boxed{y = -2x + 2}$$

Name _____

11/19 (P)

Alg. 1 Point-Slope
entrance task

CED. 2

write equation in pt-slope

① $(1, -6), m = -1$

write equation in slope-int. form

② $y - 5 = 3(x + 4)$

Answers

$$(1, -6) \quad m = -1$$

$$\textcircled{1} \quad y - y_1 = m(x - x_1)$$

$$\boxed{y + 6 = -1(x - 1)}$$

$$\textcircled{2} \quad y - 5 = 3(x + 4)$$

$$\begin{array}{rcl} y - 5 & = & 3x + 12 \\ + 5 & & + 5 \end{array}$$

$$\boxed{y = 3x + 17}$$

Name _____

11/20 (P)

Alg. 1 EXIT SLIP CED.2 _____

Equations of Parallel
Lines

Write the equation of the line
parallel to $y = x + 9$ & passes
through $(3, -1)$.

Answers

$$y = x + 9 \quad (3, -1)$$

$$m = 1$$

$$y = mx + b$$

$$-1 = 1(3) + b$$

$$-1 = 3 + b$$

$$\begin{array}{r} -3 \end{array} \quad \begin{array}{r} -3 \end{array}$$

$$-4 = b$$

$$\boxed{y = x - 4}$$

$$y - y_1 = m(x - x_1)$$

$$y + 1 = 1(\overbrace{x - 3})$$

$$\begin{array}{r} y + 1 = x - 3 \\ -1 \quad \quad -3 \end{array}$$

$$\boxed{y = x - 4}$$